

Title (en)

Spread spectrum telemetry of physiological signals

Title (de)

Spektrumtelemetrie von physiologischen Signalen

Title (fr)

Transmission par telemetrie à spectre étalé de signaux physiologiques

Publication

EP 1262144 A1 20021204 (EN)

Application

EP 02077082 A 20020527

Priority

- US 86421301 A 20010525
- US 95328397 A 19971017
- US 58743696 A 19960117

Abstract (en)

The invention disclosed is an apparatus, or system, and methodology for power efficient, flexible, data efficient wireless transmission, receipt and interpretation of signals from a patient, such signals reflecting one or more measured physiological and patient specific parameters such as an electrocardiogram, electroencephalogram, electromyogram and/or patient ID. The system includes a mobile transmitter for attachment to a patient, which is a battery powered sensor/transmitter device for transmission of enhanced data transmission rate signals in multiple frequencies within a given frequency band; a receiver for receiving the signals; and a display analysis and/or recording device for interpretation of the received signals. The system operates using a spread spectrum transmission technique which reduces interference with the detection of the transmitted signals. The mobile transmitter and the receiver include corresponding optical components for establishing a duplex optical link allowing for changes to operating characteristics while transmission is occurring. <IMAGE>

IPC 1-7

A61B 5/00

IPC 8 full level

A61B 5/00 (2006.01); **A61B 5/04** (2006.01); **G08C 13/00** (2006.01); **G08C 17/02** (2006.01); **G08C 23/04** (2006.01); **H04B 1/707** (2006.01); **H04B 7/26** (2006.01); **H04B 10/12** (2006.01); **H04K 1/00** (2006.01); **A61B 5/0476** (2006.01); **A61B 5/0488** (2006.01); **A61B 5/0496** (2006.01)

CPC (source: EP US)

A61B 5/0017 (2013.01 - EP US); **H04B 10/25759** (2013.01 - EP US); **A61B 5/0006** (2013.01 - EP US); **A61B 5/369** (2021.01 - EP US); **A61B 5/389** (2021.01 - EP US); **A61B 5/398** (2021.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

US 2002067269 A1 20020606; CA 2387556 A1 20021125; EP 1262144 A1 20021204; JP 2003061923 A 20030304

DOCDB simple family (application)

US 86421301 A 20010525; CA 2387556 A 20020527; EP 02077082 A 20020527; JP 2002151868 A 20020527